

Substitute for Form 1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

Complete If Known

Application Number	10/080,527
Filing Date	February 21, 2002
First Named Inventor	Rossum, David P.
Art Unit	2837
Examiner Name	Unassigned
Attorney Docket Number	017002-003890US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-6,365,816	04-02-2002	Rossum	
	AB	US-6,137,043	10-24-2000	Rossum	
	AC	US-5,925,841	07-20-1999	Rossum	
	AD	US-5,698,803	12-16-1997	Rossum	
	AE	US-5,342,990	08-30-1994	Rossum	
	AF	US-5,300,724	04-05-1994	Medovich	
	AG	US-5,245,667	09-14-1993	Lew	
	AH	US-5,111,727	05-12-1992	Rossum	
	AI	US-5,073,942	12-17-1991	Yoshida et al.	
	AJ	US-5,067,141	11-19-1991	Critchlow et al.	
	AK	US-5,023,825	06-11-1991	Luthra et al.	
	AL	US-5,007,323	04-16-1991	Usami	
	AM	US-4,901,615	02-20-1990	Matsushima et al.	
	AN	US-4,829,463	05-09-1989	Kakishita et al.	
	AO	US-4,715,257	12-29-1987	Hoshiai et al.	
	AP	US-4,702,142	10-27-1987	Duetsch	
	AQ	US-4,643,067	02-17-1987	Deutsch	
	AR	US-4,460,890	07-17-1984	Busby	
	AS	US-4,432,265	02-21-1984	Oya et al.	
	AT	US-4,377,960	03-29-1983	Okumura	
	AU	US-4,246,823	01-27-1981	Wachi et al.	
	AV	US-4,231,277	11-04-1990	Wachi	
	AW	US-4,020,332	04-26-1977	Crochiere et al.	
	AX	US-3,997,773	12-14-1976	Van Essen et al.	
	AY	US-3,988,607	10-26-1976	Eggermont et al.	
	AZ	Re 32,862	02-14-1989	Wachi	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

Date
Considered

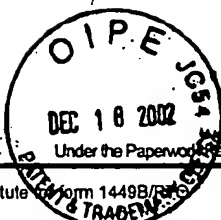
2/5/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3243324 v1



Substitute form 1449B/Rev. 10/01 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/080,527
		Filing Date	February 21, 2002
		First Named Inventor	Rossum, David P.
		Art Unit	2837
		Examiner Name	Unassigned
Sheet	4	of	4
		Attorney Docket Number	017002-003890US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W	CA	<i>Practical Considerations in the Design of Music Systems Using VLSI</i> , J. William Mauchly et al., AES 5 th International Conference 1987.	
R	CB	<i>Fourier transform and convolution subroutines for the IBM 3090 Vector Facility</i> , Ramash c. Agarwal et al., IBM J. Res. Develop. Vol. 30, No. 2, March 1986.	
W	CC	<i>Accelerando: A Real-Time, General Purpose Computer Music System</i> , Keith Lent et al., Computer Music Journal, Vol. 13, No. 4, Winter 1989.	
W	CD	<i>An Efficient Method for Pitch Shifting Digitally Sampled Sounds</i> , Keith Lent, Computer Music Journal, Vol. 13, No. 4, Winter 1989.	
R	CE	<i>An Overview of the Sound and Music Kits for the NeXT Computer</i> , David Jaffe et al., Computer Music Journal, Vol. 13, No. 2, Summer 1989.	

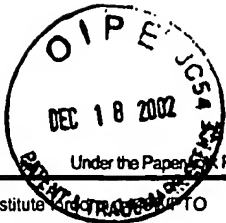
Examiner Signature		Date Considered	2/9/03
--------------------	--	-----------------	--------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3243324 v1



Substitute and Trademark TO		Complete if Known	
		Applicant Number	10/080,527
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	February 21, 2002
		First Named Inventor	Rossum, David P.
		Art Unit	2837
		Examiner Name	Unassigned
		Attorney Docket Number	017002-003890US
Sheet	3	of	4

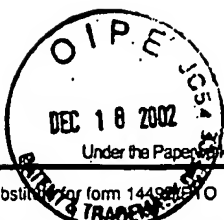
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W	BN	Sequential/USA Model 2000 - Prophet 2000 - Digital Sampling Keyboard Technical Manual, Rick Davies, 12/85.	
W	BO	E-mu Systems Emulator - Operating Instructions, Marco Alpert et al., Version 3.6, 1981.	
W	BP	E-mu Systems - Emulator Service Manual - Revision of 1/12/82.	
W	BQ	Sequential/Europe - Prophet 2000 Digital Sampling Keyboard and Prophet 2002 Rack-Mount Sampler Operation Manual, Stanley Junglieb, April 1986.	
W	BR	EMAX Digital Sampler Technical Manual, Riley B. Smith, 1987, E-mu Systems Inc.	
W	BS	E-mu Systems Inc., Emax HD Digital Sampling Keyboard, Owner's Manual, Craig Anderson, 1988.	
W	BT	Dancetech - Casio FZ Range ...FZ1...FZ-10M...FZ-20M, 08/25/99.	
W	BU	Computer Storage Systems & Technology, Richard E. Matick, 1977.	
W	BV	ICASSP 84 - Proceedings - IEEE International Conference on Acoustics, Speech, and Signal Processing, Vol. 2 of 3.	
W	BW	Some Aspects of Sample Rate Conversion, Dave Rossum, E-mu Systems, ICMC '85 Proceedings.	
W	BX	An Analysis of Pitch Shifting Algorithms, Dave Rossum, E-mu Systems, AES 87 th Convention, October 1989.	
W	BY	Compiling the E-Chip Music Signal Processor, Dave Rossum, E-mu Systems, Automated Design & Engineering for Electronics West, 1986.	
W	BZ	Compiling a Music Signal Processor, Dave Rossum, E-mu Systems, Inc., 1986 IEEE.	

Examiner Signature		Date Considered	2/5/03
--------------------	--	-----------------	--------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3243324 v1



Substitute for form 1449 (Rev. 10-01-00) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/080,527
Sheet 2 of 4		Filing Date	February 21, 2002
		First Named Inventor	Rossum, David P.
		Art Unit	2837
		Examiner Name	Unassigned
		Attorney Docket Number	017002-003890US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W	BA	Table Lookup for Sinusoidal Digital Oscillators, F.R. Moore, CMJ Vol. 1, No. 2, April 1977	
W	BB	The Technology of Computer Music, Mathews et al., 1969	
W	BC	Multirate Digital Signal Processing, Crochiere & Rabiner, 1983	
W	BD	Introduction to Numerical Analysis, Hildebrand, 1956	
W	BE	LOWE et al., "Digidesign's Sound Accelerator: Lessons Lived and Learned," <u>Computer Musical Journal</u> , Vol. 13, No. 1, 1989	
W	BF	MATTHEWS et al. The Technology of Computer Music, 1969	
W	BG	James A. Moorer et al., "The Digital Audio Processing Station: A New Concept in Audio Postproduction," 78th Convention of Audio Engineering Society, Anaheim, CA, May 1985	
W	BH	MOORER et al., "The Digital Audio Processing Station: A New Concept in Audio Postproduction," <u>J. Audio Eng. Soc.</u> , vol. 34, No. 6, June 1986.	
W	BI	MOORE, F.R., "Table Lookup Noise for Sinusoidal Digital Oscillators," <u>Computer Music Journal</u> , Menlo Park, April 1977.	
W	BJ	"Kurzweil 1000 Series," Service Manual (1000 Racks, K1000, EGP and Mark III Models), Kurzweil Music Systems, Inc. Waltham, MA, January 1989, Doc. No. 92000101	
W	BK	Musician's Guide, Ralph Jones et al., K1000SE, Kurzweil Music Systems, Inc., Waltham, MA, 1988	
W	BL	AKAI professional "SERVICE BULLETIN/HD80 Non-operation of Fan", December 12, 1990.	
W	BM	AKAI Service Manual, Model S1000KB, March 15, 1990.	

Examiner Signature		Date Considered	2/5/03
--------------------	--	-----------------	--------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3243324 v1